



Australian Government

MEM19012 Produce jewellery wax model

Release: 1

MEM19012 Produce jewellery wax model

Modification History

Release 1. Supersedes and is equivalent to MEM19012B Produce jewellery wax model

Application

This unit of competency defines the skills and knowledge required to produce one-off wax models.

This unit is not intended to include fine wire filigree work.

Where the use of computer aided equipment for modelling is required unit MEM09009 Create 2-D drawings using computer-aided design system and unit MEM09010 Create 3-D models using computer-aided design system, should also be selected as appropriate.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Band: A

Unit Weight: 4

Pre-requisite Unit

MEM11011	Undertake manual handling
MEM13015	Work safely and effectively in manufacturing and engineering
MEM16006	Organise and communicate information
MEM18001	Use hand tools
MEM18002	Use power tools/hand held operations
MEM18003	Use tools for precision work

Competency Field

Jewellery and horological

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

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1 Determine job requirements	1.1 Follow standard operating procedures (SOPs) 1.2 Comply with work health and safety (WHS) requirements at all times 1.3 Use appropriate personal protective equipment (PPE) in accordance with SOPs 1.4 Identify job requirements from specifications, drawings, job sheets or work instructions
2 Prepare materials for production of wax model	2.1 Select waxes and tools 2.2 Cut stock materials
3 Produce and finish wax models	3.1 Optimise material use and production time 3.2 Sculpt wax to specifications 3.3 Minimise imperfections in final wax model 3.4 Apply surface finishes
4 Assess suitability of final wax product	4.1 Inspect product for compliance with specifications 4.2 Modify final product, as necessary

Foundation Skills

This section describes those required skills (reading, writing, oral communication and numeracy) that are essential to workplace performance in this unit of competency.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

- Wax models include one (1) or more of the following:**
- carved forms
 - structural forms
 - free-form carving
- Tools include one (1) or more of the following:**
- heat irons
 - wax guns
 - saws
 - carving tools
 - wax files
 - flaming torch
- Surface finishes include one (1) or more of the following:**
- fine emery
 - Shellite
 - high polishes
- Stock materials include variety in one (1) or more of the following:**
- colour
 - hardness
 - properties
 - length
- Inspection includes checking one (1) or more of the following:**
- tolerances
 - allowance for casting shrinkage
 - allowance for finishing processes

Unit Mapping Information

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Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b7050d37-5fd0-4740-8f7d-3b7a49c10bb2>